PP&DS
IMPORTANT
QUESTIONS

UNIT-I

Important Questions:

1. What is Python? Write syntax? Explain with example?

2. What are the main important Features and Application in Python in detail with examples?

3. What is datatypes in python? Explain in detail with syntax and examples?

4. Explain what is input and output evaluation in python with examples?

5. What is Control Statements? Explain in detail with examples?

6. What is the String and String Builder with Examples?

7. What is Strings? Write Syntax? what a program with output?

8. How will you concatenate strings? write a program with output?

9. What are the operations with strings with example explain in detail?

10. What are the string testing methods explain with examples?

11. What is Python collections Lists, Dictionaries, Tuples with examples in detail?
12. List the basic constructs of Python?
13. Apply the conditional execution of the program?
14. Design programs for manipulating strings?
15. Use the data structure lists, Dictionaries and Tuples?

UNIT-II

Important Questions:

1. Define Function? What are the types of the functions with Example?

2. How many calling functions are there give example?

3. hat meant by multiple values from a function and write program in python?

4. How you define functions are first class objects and write program on that?

5. What is meant by positional arguments? Explain in detail?

6. What are the differences between formal and actual argument give examples?

7. Explain in detail Recursive function and write in detail?

8. Explain in detail about Exceptions write complete notes?

9. Classify exceptions and explain the ways of handling them?

UNIT-III

Important Questions:
1. what is meant by NumPy?? Explain in Detail with Examples?
2. write short notes on Pandas?? Explain in detail with examples??
3. what is meant by Matplotlib? what are the types and explain each in detail??
4. What is meant by EDA? Explain and classify in detail??
5. What are the types of EDA? Explain in detail?
6. classify Data Science Life Cycle? what are the types and draw architecture?
7. What is meant by Descriptive Statistics? explain with example?
8. What are basic tools in EDA? explain in detail with following examples?
9. what is meant by Data visualization? explain with following examples?
10. What is meant by Philosophy of EDA?

UNIT-IV

Important Questions:

1. What is Pattern Recognition and Machine Learning? Explain in detail?

2. What are the different types of Pattern Features, Pattern representation & Dimensionality reduction?

3. What is the difference between linear and non-linear?

4. Explain Bayesian Perceptron? Explain in detail?

5. Classify Nearest neighbours' classifier? Explain?

6. What is meant by Logistic regression? Classify??

7. Explain Decision trees and random forests? Explain??

8. Explain k-means clustering Regression? Write example?

9. Explain Confusion matrix, Evaluation metrics? Explain in detail?

10. What is mean by Cost Functions and Cross Validation??

UNIT-V

- **Important Questions:**
- 1.What is Multilayer perceptron Backpropagation and classify?
- 2.What is Loss functions and Write example?
- 3.Describe Hyperparameter tuning and neat sketch with example?
- 4.What are the differences b/w of RNN, CNN and LSTM?
- 5.Describe of Data Science Models ?
- Applications to text
- images, videos,
- recommender systems,
- image classification,
- Social network graphs
- Write in Details of Data science models??